

December 132013 H.gwb - 2/4 - Mon Dec 162013 17:41:00



Given: Parallelogram ACDF

$$
\overline{\mathrm{AB}} \simeq \overline{\mathrm{ED}}
$$

Prove: CBFE is a Parallelogram

$$
\begin{aligned}
& \text { stathment } \\
& \text { (1) } A C D F D \\
& A B \cong \overline{E D} \\
& \text { (2) } \angle A \cong \angle D \\
& \text { (3) } \overline{A F} \cong \overline{C D}
\end{aligned}
$$

(4) $\triangle B A F \cong \triangle E D$
(5) $\overline{A C} \cong \overline{F D}$
(6) $\overline{C B} \cong \overline{F E}$
(27) $\overline{B F} \cong \overline{C E}$
(8) CBFE

(2口 $\Rightarrow$ opp $<s \cong$
(3) $\square \Rightarrow$ opp. sides $\cong$
(4) SAS
(a) Same as step ${ }^{3}$
(6) Subtraction propenty
(1) CPCTC
10. Bthopp rites $\cong \Rightarrow$ Quad $\square$. (step 6 87)
(we used methed $\$ 1$ from prew ous page)

Given: Parallelogram CBFE

$$
\angle \mathrm{ECD} \cong \angle \mathrm{BFA}
$$

Prove: ACDF is a Parallelogram



